

REQUEST FOR QUOTATION – LIGHTING RETROFIT

City Of High Point
Purchasing Division
211 S. Hamilton St., PO Box 230
High Point, NC 27260
Phone: 336-883-3219 Fax: 336-883-3248
Patricia H. Sykes, Purchasing Manager

INFORMAL BID NUMBER: <u>2101-080112</u>	DATE: <u>July 5, 2012</u>
QUOTE DUE NO LATER THAN Wednesday, August 1, 2012 at 5:00 PM	
BUYER: Tracey Adams tracey.adams@highpointnc.gov TELEPHONE: (336) 883-3220	Project Location: City of High Point High Point, NC 27260

Pursuant to General Statutes of North Carolina, Section 143-129, as amended, bids and proposals subject to the conditions and specifications herein, are invited for furnishing all labor, supervision, materials and equipment for the project described herein.

Prices or any other entry made hereon by the bidders shall be considered firm and not subject to change or withdrawal.

Bidders certify under penalty of perjury that this bid has not been arrived at collusively and that no Federal or North Carolina antitrust laws have been violated.

State and County sales **taxes shall not be included** in the bid prices on any materials to be used in this contract. The Contractor will be reimbursed for sales taxes in addition to the prices bid upon submission of an invoice showing as a separate item the amount of tax paid. Sales tax will be reimbursed only on items that are annexed to, affixed to, or in some manner have become a part of the building or structure being erected, altered or repaired.

A MANDATORY prebid conference will be held at 10:00 a.m. on Wednesday, July 18, 2012 at the City of High Point Electric Department, 816 E. Green St., High Point, NC 27260. .

Bidders must attend the prebid conference to become familiar with all existing site conditions including all applicable laws, codes, ordinances, rules and regulations that will affect this work. THIS WILL BE THE ONLY OPPORTUNITY TO VISIT THE SITE.

All contractors shall be properly licensed in accordance with state laws governing their respective trades in accordance with General Statutes of North Carolina Chapter 87.

Contractor's License Number (if required):

Bidders shall sign this form and mail or deliver it with additional bid documents on or before the above date and time, to the City of High Point Purchasing Division, P O Box 230 (27261), 211 S. Hamilton St., High Point, NC 27260.

Company Name			Signature
Address			Above (typed or printed)
City	State	Zip	Date
E-mail			Telephone Fax

**SPECIFICATIONS & PROPOSAL
LIGHT FIXTURE RETROFIT & REPLACEMENT**

BID NO. 2101-080112

SCOPE OF WORK: The City of High Point is accepting bids for retrofitting and replacing lamps, ballasts and fixtures in three building locations.

Contractor shall be responsible for recycling/disposal of all removed lamps, ballasts and fixtures. Contractor shall provide the City with documentation from the recycling or disposal facility showing that applicable State Laws and procedures were followed..

Contractor agrees to retrofit and replace lighting fixtures for the City of High Point at the following locations:

1. Municipal Operations Center, 816 E Green St., High Point
2. Fleet Maintenance Facility, 3524 Triangle Lake Rd., High Point
3. Signal and Sign Shop, 3524 Triangle Lake Rd, High Point

The Project Manager and point of contact for this contract is:

Allen Averill, PE
Electrical Engineering Manager
(336) 883-3137 Office
(336) 883-3478 Fax
allen.averill@highpointnc.gov

The quantities listed in the specifications are estimates. Contractor will be compensated for actual quantities installed based on the unit prices quoted. Contractor shall notify the Project Manager, of any additional quantities before proceeding with installation.

While retrofitting, all fixtures shall be cleaned. If lenses or any portion of the fixtures are deemed unserviceable the Project Manager shall be advised and appropriate action taken only upon direction of the Project Manager.

Quote cost for materials, lump sum for labor and equipment for installation and cleaning of fixtures, and lump sum for disposal as itemized below.

In spaces provided list brand name and part number of replacement items.

Existing ballast(s) shall be removed and replaced with electronic ballast(s). Ballasts shall be Advance "Standard" electronic ballast, Magnetek or approved equal.

Existing T-12 lamps shall be removed and replaced with T-8 lamps of wattage capable of providing the required level of illumination for each space, but not greater than 32 watts. Lamps shall be 5,000°K, unless otherwise designated by the Project Manager and have a Color Rendering Index rating of 71 or higher. Lamps shall be GE, Philips, Sylvania or approved equal

Bay area lamps shall be removed and replaced with Holophane lamps or approved equal.

References to brand names are not meant to be restrictive or limit competition, but to identify and establish quality and lighting level desired. Bids of comparable products from other manufacturers will be considered.

Bidders shall provide, with their bid, cut sheets and ISA files for proposed lighting fixtures (if other than brands listed).

The City reserves the right to award this contract in whole or in part based on funds availability. Contract will be awarded to one bidder for all projects awarded.

The City of High Point reserves the right to reject any and all bids, to waive any informality in bids, and unless otherwise specified by the bidder, to accept any item in the bid. If either a unit price or extended price is obviously in error or the other is obviously correct, the incorrect price will be disregarded.

MUNICIPAL OPERATIONS CENTER:

Bid Item #1: Conversion of 278 each T-12 Fixtures to T-8 Fixtures. Existing lighting controls to be maintained.

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
2 TUBE 4 FOOT (2T4FT)	132	EA	\$	\$
4 TUBE 4 FOOT (4T4FT)	143	EA	\$	\$
2 TUBE 8 FOOT (2T8FT)	3	EA	\$	\$
LABOR FOR REMOVAL OF OLD FIXTURES AND INSTALLATION OF NEW FIXTURES	1	LS	\$	\$
DISPOSAL OF OLD FIXTURES	1	LS	\$	\$
TOTAL COST FOR BID ITEM #1				\$

Ballast – Brand & Part#	
4’ Fluorescent Tube – Brand & Part #	
8’ Fluorescent Tube – Brand & Part #	

Bid Item #2: Removal of 4 - HPS fixtures in the substation area and installation of 4 – 4T4FT type fixtures in the bay area, suspended 4 ft. from ceiling – Holophane HB24 6 32 N1X20 or equivalent

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
4 TUBE 4 FOOT (4T4FT) SUSPENDED FIXTURES	4	EA	\$	\$
LABOR FOR REMOVAL OF OLD FIXTURES AND INSTALLATION OF NEW FIXTURES	1	LS	\$	\$
DISPOSAL OF OLD FIXTURES	1	LS	\$	\$
TOTAL COST FOR BID ITEM #2				\$

Brand Name & Part #	
---------------------	--

Bid Item #3: A previous contractor when installing new ballast and converting to T-8 lighting removed the ability for staged lighting. Provide a not to exceed price to correct to ability for staged lighting the areas listed below. Quoted price is to include all labor materials & equipment for completion of this bid item.

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
SERVICE DEPARTMENT - 4T4FT TYPE FIXTURES	6	LS	N/A	\$
BREAK ROOM – 4T4FT	8	LS	N/A	\$
METER ROOM – 4T4FT	15	LS	N/A	\$
TOTAL COST FOR BID ITEM #3				\$

Bid Item #4: Installation of 8 Induction High Bay Lights in the Streets Department bay area. These lights will be removed from the Fleets Maintenance Facility (FMF) garage area. Price will include removal of 3 HPS and 2 MH fixtures and replacing them with High Bay lights; and installation of 3 High Bay lights in new locations.

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
ALL MATERIALS, EQUIPMENT AND LABOR FOR REMOVAL OF 3 HPS LIGHTS AND 2 MH LIGHTS AND REPLACING WITH 5 USED INDUCTION HIGH BAY LIGHTS	1	LS	\$	\$
ALL MATERIALS, EQUIPMENT, WIRING AND LABOR TO INSTALL 3 USED INDUCTION HIGH BAY LIGHTS IN NEW LOCATIONS	1	LS	\$	\$
DISPOSAL OF 3 HPS LIGHTS AND 2 MH LIGHTS	1	LS	\$	\$
TOTAL COST FOR BID ITEM #4				\$

FLEET MAINTENANCE FACILITY

Bid Item #1: Conversion of 81 each T-12 Fixtures to T-8 Fixtures. Existing lighting controls to be maintained.

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
2 X 2 U-TUBE (2TU)	6	EA	\$	\$
1 TUBE 4 FOOT (1T4T)	4	EA		
2 TUBE 4 FOOT (2T4FT)	5	EA	\$	\$
4 TUBE 4 FOOT (4T4FT)	66	EA	\$	\$
LABOR FOR REMOVAL OF OLD FIXTURES AND INSTALLATION OF NEW FIXTURES	1	LS	\$	\$
DISPOSAL OF OLD FIXTURES	1	LS	\$	\$
TOTAL COST FOR BID ITEM #1				\$

Ballast – Brand & Part#	
U Tube – Brand & Part #	
4' Fluorescent Tube – Brand & Part #	

Bid Item #2: Removal of 48 High Bay 400 watt fixtures in Fleets Department bay area. Replace with a 6T4FT type fixtures. Holophane HB24 6 32 N1X20 or equivalent. Contractor to supply Five (5) extra light fixtures for spares. Disposal of 40 High Bay fixtures (8 Induction High Bay Lights to be installed in Streets Department bay area).

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
6 TUBE 4 FOOT FIXTURES (6T4FT)	48	EA	\$	\$
6 TUBE 4 FOOT FIXTURES (SPARES)	5	EA	\$	
LABOR FOR REMOVAL OF 48 OLD FIXTURES AND INSTALLATION OF 48 NEW FIXTURES	1	LS	\$	\$
DISPOSAL OF 40 OLD FIXTURES	1	LS	\$	\$
TOTAL COST FOR BID ITEM #2				\$

Brand Name & Part #	
---------------------	--

Bid Item #3: Provide all materials, equipment, wiring and labor to install 19 each 6 tube 4 Foot type fixtures in new location in the bay area. Holophane HB24 6 32 N1X20 or equivalent.

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
6 TUBE 4 FOOT FIXTURES (6T4FT)	19	EA	\$	\$
LABOR, MATERIALS & EQUIPMENT	1	LS	\$	\$
TOTAL COST FOR BID ITEM #3				\$

Brand Name & Part #	
---------------------	--

Bid Item #4: Provide all materials, equipment, wiring and labor to install 4 each 2 tube 4 foot type fixtures on the wall in the lube service area. Holophane CTL 4 HT0232U or equivalent.

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
2 TUBE 4 FOOT FIXTURES (2T4FT)	4	EA	\$	\$
LABOR, MATERIALS & EQUIPMENT	1	LS	\$	\$
TOTAL COST FOR BID ITEM #4				\$

Brand Name & Part #	
---------------------	--

Bid Item #1: Conversion of 190 each T-12 Fixtures to T-8 Fixtures. Existing lighting controls to be maintained.

DESCRIPTION OF WORK	QUANTITY	U/M	PRICE EA	TOTAL PRICE
2 TUBE 4 FOOT (2T4FT)	91	EA	\$	\$
4 TUBE 4 FOOT (4T4FT)	95	EA	\$	\$
2 TUBE 8 FOOT (2T8FT)	4	EA	\$	\$
LABOR FOR REMOVAL OF OLD FIXTURES AND INSTALLATION OF NEW FIXTURES	1	LS	\$	\$
DISPOSAL OF OLD FIXTURES	1	LS	\$	\$
TOTAL COST FOR BID ITEM #1				\$

Ballast – Brand & Part #	
4' Fluorescent Tube – Brand & Part #	
8' Fluorescent Tube – Brand & Part #	

By submitting this proposal, the contractor certifies the following:

- _____ This proposal is signed by an authorized representative of the firm.
- _____ Certificate of Insurance as required in Item 17 of the Instructions to Bidders will be obtained within 10 calendar days after notice of award.
- _____ All safety standards as required in Item 11 of the Instructions to Bidders will be adhered to.
- _____ The cost and availability of all equipment, materials, and supplies associated with performing the services described herein have been determined and included in the proposed cost.
- _____ All labor costs, direct and indirect, have been determined and included in the proposed cost.
- _____ The contractor has read and understands the conditions set forth in this RFP and agrees to them.

Therefore, in compliance with this Request for Proposals, and subject to all conditions herein, the undersigned offers and agrees, if this proposal is accepted within 90 days from the date of the opening, to furnish the subject services.

Work on project will be completed within_____days after receipt of Notice to Proceed.

REFERENCES

Provide a minimum of three references for projects similar in size and scope of work.

Business Name and Address	Contact Name	Telephone Number

CONTRACT AGREEMENT

THIS CONTRACT made this _____ day of _____, 20_____, by and between _____ (a corporation organized and existing under the laws of the State of North Carolina), hereinafter called the *Contractor*, and the City of High Point, hereinafter called *The City*.

WITNESSETH, that the *Contractor* and *The City*, for the consideration stated herein, mutually agree as follows:

ARTICLE 1 - Statement of Work, The *Contractor* shall furnish all supervision, technical personnel, labor, materials, tools, equipment, and services, including utility and transportation services, and perform and complete all work required for the construction on the improvements embraced in the City of High Point specifications, namely: _____ and required supplemental work for the improvement, Bid Number _____ Contract Number _____, all in strict accordance with the Contract Documents, including all Addenda thereto.

ARTICLE 2 - The Contract Price, *The City* will pay _____ for the performance of the contract, in current funds, for the total quantities of work performed at the lump sum and/or the unit prices stipulated in the bid for the several respective items of work completed, subject to additions and deductions as provided in the Section - Changes in the Work contained under General Conditions.

ARTICLE 3 - Contract Documents, The executed contract documents shall consist of the following:

- | | |
|-----------------------------------|----------------------------------|
| 1. This Agreement | 6. Signed Copy of Bid |
| 2. Addenda, Numbered ____ to ____ | 7. General Conditions |
| 3. Invitation for Bids | 8. Supplemental Conditions |
| 4. Instruction to Bidders | 9. Technical Specifications |
| 5. Project Special Provisions | 10. Plans, Numbered ____ to ____ |

This Agreement, together with other documents enumerated in this ARTICLE 3, which said other documents are as fully a part of the Contract as if hereto attached or herein repeated, form the Contract between the parties hereto. In the event that any provision in any component part of this Contract conflicts with any provisions of any other component part, the provisions of the component part first enumerated in this ARTICLE 3 shall govern, except as otherwise specifically stated.

Signature Page for Incorporated Firms

IN WITNESS THEREOF, the parties hereto have caused this Agreement to be executed in 6 original copies on the day and year first above written.

Contractor

By: _____
President

Name above (Typed or Printed)

Title: _____

Street Address

City/State

ATTEST

In witness whereof, said corporation has caused this instrument to be executed by its President and attested by its Secretary this the _____ day of _____, 20____.

Corporate Name

(SEAL)

By: _____
President (Signature)

Attest: _____
Secretary (Signature)

STATE OF _____
COUNTY OF _____

I, _____, a Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledge that he/she is the Secretary of _____, a corporation organized in the state of _____ and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its President, sealed with its corporate seal and attested by him/her as its Secretary.

Witness my hand and official seal or seal, this the _____ day of _____, 20____.

(Notary Public)

(SEAL/STAMP)

My Commission Expires: _____

CITY OF HIGH POINT, NORTH CAROLINA
The City

P O Box 230, High Point, NC 27261
Address

Witness

By: _____
W. Patrick Pate, Assistant City Manager

Signature Page for Un-incorporated Firms

IN WITNESS THEREOF, the parties hereto have caused this Agreement to be executed in 6 original copies on the day and year first above written.

*Contractor*_____

By:_____ *Authorized Signature*

Name above (Typed or Printed)

*Title:*_____

Street Address _____

City/State _____

STATE OF _____

COUNTY OF _____

I, _____, a Notary Public of the County and State aforesaid, certify that _____ personally came before me this day and acknowledge that he/she is the Secretary of _____, a corporation organized in the state of _____ and that by authority duly given and as the act of the corporation, the foregoing instrument was signed in its name by its President, sealed with its corporate seal and attested by him/her as its Secretary.

Witness my hand and official seal or seal, this the _____ day of _____, 20_____.

(Notary Public)

(SEAL/STAMP)

My Commission Expires: _____

CITY OF HIGH POINT, NORTH CAROLINA
The City

P O Box 230, High Point, NC 27261
Address

Witness

By:_____
W. Patrick Pate, Assistant City Manager

APPROVAL BY CITY ATTORNEY

Approved as to form and legality:

JoAnne L. Carlyle, City Attorney

Date: _____

APPROVAL BY FINANCE OFFICER

This instrument has been preaudited in the manner required by the Local Government Budget and Fiscal Control Act.

Jeffrey A. Moore, Director of Financial Services

Date: _____

**AFFIDAVIT-MINORITY PARTICIPATION
INFORMAL CONSTRUCTION CONTRACTS**

The City of High Point is committed to providing equal opportunities for participation in all aspects of the City of High Point contracting and purchasing programs including, but not limited to, participating in procurement contracts for, materials, services, construction and repair work activities, and lease agreements in the City of High Point. The Purchasing Division actively seeks to identify qualified minority, handicapped, disadvantaged, and women-owned business enterprises so as to widen opportunities for participation as providers of goods and services, increase competition and ensure the proper and diligent use of public funds.

(NOTE: THIS FORM IS NOT TO BE SUBMITTED WITH THE BID PROPOSAL)

This affidavit shall be provided by the apparent lowest responsible, responsive bidder within **72 hours** after notification of being low bidder. Apparent low bidder shall submit this affidavit even if there is **no** minority participation. Contract shall be awarded upon receipt of affidavit.

Portion of the Work to be performed by Minority Firms

_____, I do hereby certify that on the
(Name of Bidder)

(Project Name)

Bid Number# _____ Amount of Bid \$ _____

I will expend a minimum of _____% of the total dollar amount of the contract with minority business enterprises. Minority businesses will be employed as construction subcontractors, vendors, suppliers or providers of professional services. Such work will be subcontracted to the firms listed below.

Attach additional sheets if required

Name and Phone Number	Minority Category	Work Description	Dollar Value

*Minority categories: Black, African American (**B**), Hispanic (**H**), Asian American (**A**) American Indian (**I**), Female (**F**) Socially and Economically Disadvantaged (**D**)

The undersigned hereby certifies that he or she has read the terms of this commitment and is authorized to bind the bidder to the commitment herein set forth.

Date: _____ Name of Authorized Officer: _____

Signature: _____

Title: _____

INSTRUCTIONS TO BIDDERS

GENERAL: All bids are subject to the provisions of the attached General Contract Terms and Conditions. All bid responses will be controlled by the Terms and Conditions included by the City of High Point. Bidder terms and conditions included as a part of published price lists, catalogs, and/or other documents submitted as a part of the bid response are waived and will have no effect either on the bid, or any contract which may be awarded as a result of this bid. **The attachment of any other terms and conditions may be grounds for rejection.**

Bidder specifically agrees to the conditions set forth in this paragraph by signature of the "BID" contained herein.

Pursuant to G.S. 143-48 and Executive Order No. 77, the State invites and encourages participation in this procurement by a business owned by minorities, women, and the handicapped.

MAKE AND MODEL: Indicate manufacturers' name and model number of item offered in the spaces provided on the quote form. The purpose of these specifications is to identify and establish general quality level desired. References to any Brand Names are not intended to be restrictive and comparable products of other manufacturers will be considered. However, bidders are cautioned that any deviation from specifications must be pointed out in their bid.

WARRANTY: Bidder guarantees equipment offered by him to be free from any and all defects in material and workmanship and warrants same for a period of one (1) year unless otherwise stated in the specifications. Such warranty is to cover the cost of all service, parts, labor and travel to and from points of service.

SPECIFICATIONS: Manufacturer's name and catalog numbers used in this bid are product specific unless the description states equivalent acceptable. These products are required for compatibility and continuity of support.

BID EVALUATION: The City of High Point reserves the right to reject any bid on the basis of the function, compatibility with user requirements, as well as cost. The City of High Point reserves the right to award this contract to a single overall bidder on all items, or to make award on the basis of individual items or groups of items, whichever shall be considered by the City of High Point to be most advantageous or to constitute its best interest. Bidders should show unit prices, but are requested to offer a lump sum price. The City of High Point will not be bound by oral discussions during evaluation process. Responsible purchasing agent should approve all contact regarding this award.

CANCELLATION: The City of High Point may terminate/cancel this contract at any time by providing written notice to the bidder at least thirty (30) days before the effective date of termination/cancellation.

SERVICE: Adequate and satisfactory availability of repair parts and supplies, and ability to meet warranty and service requirements are necessary. The City of High Point reserves the right to satisfy itself by inquiry or otherwise as to bidder's capability in this regard.

SAFETY: See attached General Terms & Conditions #11.

BID RESULTS: For bid results email tracey.adams@highpointnc.gov NO EARLIER than TWO DAYS following the bid close date.

*** *THE CITY OF HIGH POINT WILL NOT BE BOUND BY ORAL DISCUSSION REGARDING THIS REQUEST FOR BID. * ***

QUESTIONS: Questions regarding the specifications on this bid should be referred to the purchasing agent.

SPECIAL INTEREST GROUP DEFINITIONS:

Women Owned (51% and controlled by Women)

Handicapped Owned (51% owned & controlled by a Physically Handicapped Person)

Minority Owned (At least 51% of which is owned and controlled by minority group member. (Black, Asian, Hispanic, American Indian)

GENERAL TERMS AND CONDITIONS

1. **ACCEPTANCE AND REJECTION**: The City of High Point reserves the right to reject any and all bids, to waive any informality in bids, and unless otherwise specified by the bidder, to accept any item in the bid. If either a unit price or extended price is obviously in error or the other is obviously correct, the incorrect price will be disregarded.

2. **TIME FOR CONSIDERATION**: Unless otherwise indicated on the first page of this document, the offer shall be valid for 45 days from the date of bid opening. Preference may be given to bids allowing not less than 45 days for consideration and acceptance.

3. **TAXES**: No taxes shall be included in any bid prices.
 - a. **FEDERAL**: Generally, states and political subdivisions are exempt from such taxes, as excise and transportation. Exemption is claimed under Registry No. 56-70-0047K as provided by Chapter 32 of the Internal Revenue Code.

 - b. **OTHER**: Bid prices are not to include any sales, import, or personal property taxes. To the extent applicable, they are to be invoiced as a separate item(s)

4. **PRICE ADJUSTMENTS**: Any price changes, downward or upward, which might be permitted during the contract period, must be general, either by reason of market change or on the part of the bidder to other customers.
 - a. **NOTIFICATION**: Must be given to the City of High Point Purchasing Department, in writing, concerning any proposed price adjustments. Such notification shall be accompanied by copy of manufacturers' official notice or other evidence that the change is general in nature.

 - b. **DECREASES**: The City of High Point shall receive full proportionate benefit immediately at any time during the contract period.

 - c. **INCREASES**: All prices offered herein shall be firm against any increase for 180 days from effective date of the proposed contract. After this period, a request for increase may be submitted with the City of High Point reserving the right to accept or reject the increase, or cancel the contract. Such action by the City of High Point shall occur not later than 15 days after receipt and review by the City of High Point of a properly documented request for price increase. Any increases accepted shall become effective on a date to be determined by the City of High Point which:
 - 1) Shall not be later than 30 days after the expiration of the original 15 days reserved by the City of High Point to evaluate the request for increase;

 - d. **INVOICES**: It is understood and agreed that orders will be shipped at the established contract prices in effect on dates orders are placed. Invoicing at variance with this provision will subject the contract to cancellation. Applicable North Carolina sales tax shall be invoiced as a separate item.

5. **PAYMENT TERMS**: Payment terms are Net 30 days after receipt of correct invoice or acceptance of goods, whichever is later. The City of High Point is responsible for all payments under the contract.

6. **AFFIRMATIVE ACTION**: The successful bidder will take affirmative action in complying with all Federal and State requirements concerning fair employment and employment of the handicapped, and concerning the treatment of all employees, without discrimination by reason of race, color, religion, sex, national origin, or physical handicap.

7. **CONDITION AND PACKAGING**: Unless otherwise indicated in the bid, it is understood and agreed that any item offered or shipped on this bid shall be new and in first class condition, that all containers shall be new and suitable for storage or shipment, and that prices include standard commercial packaging.

8. **PERFORMANCE BOND AND DEFAULT**: The City of High Point reserves the right to require performance bonds from successful bidder, as provided by law, without expense to the City. Otherwise, in case of default by the Bidder, the City may procure the articles or services from other sources and hold the Bidder responsible for any excess cost occasioned thereby. Default shall occur if the Bidder fails to perform any obligation under the contract and schedule and such failure remains uncured for more than thirty (30) days after receipt of written notice thereof from the City of High Point.

9. **SAMPLES**: Samples of items, when required, must be furnished as stipulated herein, free of expense, and if not destroyed will, upon request, be returned at the bidder's expense. Request for the return of samples must be made within 10 days following opening of bids. Otherwise the samples will become City of High Point property. Each individual sample must be labeled with bidder's name and item number. Samples, on which an award is made, will be retained for the contract period. These will be returned, if requested, ten days prior to expiration of the contract.

10. **SPECIFICATIONS**: Any deviation from specifications indicated herein must be clearly pointed out; otherwise, it will be considered that items offered are in strict compliance with these specifications, and successful bidder will be held responsible therefore. Deviations must be explained in detail on an attached sheet(s).

The bidder shall not construe this paragraph as inviting deviation or implying that any deviation will be acceptable.

11. **SAFETY STANDARDS**: All manufactured items and/or fabricated assemblies subject to operation under pressure, operation by connection to an electric source, or operation involving a connection to a manufactured, natural, or LP gas source shall be constructed and approved in a manner acceptable to the appropriate state inspector which customarily requires the label or re-examination listing or identification marking of the appropriate safety standard organization, such as the American Society of Mechanical Electrical Engineers for pressure vessels; the Underwriters' Laboratories and/or National Electrical Manufacturers' Association for electrically operated assemblies; or the American Gas Association for gas operated assemblies, where such approvals of listings have been established for the type(s) of devices offered and furnished. Further, all items furnished by the successful bidder shall meet all requirements of the Occupational Safety and Health Act (OSHA), and state and federal requirements relating to clean air and water pollution.

All bidders must comply with *North Carolina Occupational Safety and Health Standards for General Industry, 29CFR 1910*. Construction bidders must comply with *North Carolina Occupational Safety and Health Standards for the Construction Industry, 29CFR 1926*. In addition, bidders shall comply with all applicable occupational health and safety and environmental rules and regulations. Bidders shall effectively manage their safety and health responsibilities including:

1. **Accident Prevention**

Prevent injuries and illnesses to their employees and others on or near their job site. Bidder managers and supervisors shall ensure employer's personnel safety by strict adherence to established safety rules and procedures.

2. **Environmental Protection**

Protect the environment on, near, and around their work site by compliance with all applicable environmental regulations.

3. **Employee Education and Training**

Provide education and training to all bidders employees before they are exposed to potential workplace or other hazards as required by specific OSHA Standards.

12. **INFORMATION AND DESCRIPTIVE LITERATURE**: Bidders are to furnish all information requested and in the spaces provided on the bid form. Further, as may be specified elsewhere, each bidder must submit with his proposal: cuts, sketches, descriptive literature and/or complete specifications covering the products offered. Reference to literature submitted with a previous bid does not satisfy this provision. Bids, which do not comply with these requirements, will be subject to rejection.

13. **PROMPT PAYMENT DISCOUNTS**: Bidders are urged to compute all discounts into the price offered. If a prompt payment discount is offered, it will not be considered in the award of the contract except as a factor to aid in resolving cases of identical prices.

14. **AWARD OF CONTRACT**: As directed by statute, qualified bids will be evaluated and acceptance made of the lowest and best bid most advantageous to the City of High Point as determined upon consideration of such factors as: prices offered; the quality of the articles offered; the general reputation and performance capabilities of the bidders; the substantial conformity with the specifications and other conditions set forth in the bid; the suitability of the articles for the intended use; the related services needed; the date or dates of delivery and performance; and such other factors deemed by the City to be pertinent or peculiar to the purchase in question. Unless otherwise specified by the City or the bidder, the City reserves the right to accept any items or groups of items on a multi-item bid.

The City reserves the right to make partial, progressive or multiple awards: where it is advantageous to award separately by items; or where more than one supplier is needed to provide the contemplated requirements as to quantity, quality, delivery, service, geographical areas; other factors deemed by the City of High Point to be pertinent or peculiar to the purchase in question.

15. **GOVERNMENTAL RESTRICTIONS**: In the event any Governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered on this proposal prior to their delivery, it shall be the responsibility of the successful bidder to notify the City of High Point Purchasing Department at once, indicating in his letter the specific regulation which required such alterations. The City of High Point reserves the right to accept any such alterations, including any price adjustments occasioned thereby, or to cancel the contract.

16. **M/WBE**: Pursuant to General Statute 143-48 and Executive Order #77, the City of High Point invites and encourages participation in this procurement process by businesses owned by minorities, women, and the handicapped.

17. **INSURANCE**:

Coverage - During the term of the contract, the bidder at its sole cost and expense shall provide commercial insurance of such type and with such terms and limits as may be reasonably associated with the contract. As a minimum, the bidder shall provide and maintain the following coverage and limits:

- a. **Worker's Compensation** - The bidder shall provide and maintain Worker's Compensation Insurance, as required by the laws of North Carolina, as well as employer's liability coverage with minimum limits of \$150,000.00, covering all bidders' employees who are engaged in any work under the contract. If any work is sublet, the bidder shall require the subcontractor to provide the same coverage for any of his employees engaged in any work under the contract.
- b. **Commercial General Liability** - General Liability Coverage, on a Comprehensive Broad Form on an occurrence basis in the minimum amount of \$500,000.00 Combined Single Limit. (Defense cost shall be in excess of the limit of liability.)
- c. **Automobile** - Automobile Liability Insurance, to include liability coverage, covering all owned, hired and non-owned vehicles, used in connection with the contract. The minimum combined single limit shall be \$150,000.00 bodily injury and property damage; \$150,000.00 uninsured/under-insured motorist; and \$1,000.00 medical payment.

Requirements - Providing and maintaining adequate insurance coverage is a material obligation of the bidder and is of the essence of this contract. All such insurance shall meet all laws of the State of North Carolina. Such insurance coverage shall be obtained from companies that are authorized to provide such coverage and that are authorized by the Commissioner of Insurance to do business in North Carolina. The bidder shall at all times comply with the terms of such insurance policies, and all requirements of the insurer under any of such insurance policies, except as they may conflict with existing North Carolina laws or this contract. The limits of coverage under each insurance policy maintained by the bidder shall not be interpreted as limiting the bidder's Liability and obligations under the contract. It is agreed that the coverage as stated shall not be canceled or changed until thirty (30) days after written notice of such termination or alteration has been sent by registered mail to the City of High Point Purchasing Department.

18. **PATENTS AND COPYRIGHTS**: The Bidder shall hold and save the City of High Point, its officers, agents, and employees, harmless from liability of any kind, including costs and expenses on account of any patented or unpatented invention, articles, device or appliance manufactured or used in the performance of this contract, including use by the government.

Any and all copy, art, designs, negatives, photographs, or other tangible items created pursuant to bidder's performance of this project shall be the property of City of High Point and shall be delivered to City upon completion of the project. Such property shall be transferred to City in excellent, reusable condition.

In addition, the copyright in and to any copyrightable work, including, but not limited to, copy, art, negatives, photographs, designs, text, software, or documentation created as part of the bidder's performance of this project shall vest in the City, and the bidder agrees to assign all rights therein to the City. Bidder further agrees to provide the City with any and all reasonable assistance, which the City may require to obtain copyright registrations or to perfect its title in any such work, including the execution of any documents submitted by the City.

19. **PATENT AND COPYRIGHT INDEMNITY**: BIDDER will defend or settle, at its own expense, any action brought against Customer to the extent that it is based on a claim that the product(s) provided pursuant to this agreement infringe any U.S. copyright or patent; and will pay those costs, damages and attorney's fees finally awarded against Customers in any such action attributable to any such claim, but such defense, settlements and payments are conditioned on the following (1) that BIDDER shall be notified promptly in writing by Customer of any such claim; (2) that BIDDER shall have sole control of the defense of any action on such claim and of all negotiations for its settlement or compromise; (3) that Customer shall cooperate with BIDDER in a reasonable way to facilitate the settlement of defense of such claim; (4) that such claim does not arise from Customer modifications not authorized by the BIDDER or from the use of combination of products provided by the BIDDER with products provided by the Customer or by others; and (5) should such product(s) become, or in the BIDDER's opinion likely to become, the subject of such claim of infringement, then Customer shall permit BIDDER, at BIDDER's option and expense, either to procure for Customer the right to continue using the product(s), or replace or modify the same so that it becomes non-infringing and performs in a substantially similar manner to the original product; or (c) upon failure of (a) or (b) despite the reasonable efforts of the BIDDER for a sold product or licensed software, return the price paid for the licensed software and any product dependent thereon.

20. **ADVERTISING**: Bidder agrees not to use the existence of this contract or the name of the City of High Point as a part of any commercial advertising without prior approval of the City of High Point Purchasing Department.

21. **EXCEPTIONS**: All proposals are subject to the terms and conditions outlined herein. All responses will be controlled by such terms and conditions and the submission of other terms and conditions, price catalogs, and other documents as part of a Bidder's response will be waived and have no effect on this Request for Proposal or any other contract that may be awarded resulting from this solicitation. The submission of any other terms and conditions by a Bidder may be grounds for rejection of the Bidder's proposal. The Bidder specifically agrees to the conditions set forth in the above paragraph by affixing his name on the signatory page contained herein.

22. **CONFIDENTIAL INFORMATION**: As provided by statute and rule, the City of High Point will consider keeping trade secrets which the bidder does not wish DISCLOSED confidential. Each page shall be identified in boldface at the top and bottom as "CONFIDENTIAL" by the bidder. Cost information shall not be deemed confidential. In spite of what is labeled as a trade secret, the determination whether it is or not will be determined by North Carolina law.

23. **ASSIGNMENT**: No assignment of the bidder's obligations nor the bidder's right to receive payment hereunder shall be permitted. However, upon written request approved by the City of High Point Purchasing Department, solely as a convenience to the bidder, the City of High Point may:

- a. Forward the bidder's payment check directly to any person or entity designated by the bidder, and
- b. Include any person or entity designated by bidder as a joint payee on the bidder's payment check.

In no event shall such approval and action obligate the City of High Point to anyone other than the bidder and the bidder shall remain responsible for fulfillment of all contract obligations.

24. **ACCESS TO PERSONS AND RECORDS:** The City Auditor shall have access to persons and records as a result of all contracts or grants entered into by the City in accordance with General Statute 147-64.7.

25. **INSPECTION AT BIDDER'S SITE:** The City of High Point reserves the right to inspect, at a reasonable time, the equipment/item, plant or other facilities of a prospective bidder prior to contract award, and during the contract term as necessary for the City of High Point's determination that such equipment/item, plant or other facilities conform with the specifications/requirements and are adequate and suitable for the proper and effective performance of the contract.

26. **AVAILABILITY OF FUNDS:** Any and all payments of compensation of this specific transaction, it's continuing or any renewal or extension are dependent upon and subject to the allocation of appropriation of funds to the City for the purpose set forth in this agreement.

27. **GOVERNING LAWS:** All contracts, transactions, agreements, etc., are made under and shall be governed by and construed in accordance with the laws of the State of North Carolina.

28. **ADMINISTRATIVE CODE:** Bids, proposals, and awards are subject to applicable provisions of the North Carolina Administrative Code.

29. **EXECUTION:** Failure to sign under EXECUTION section will render bid invalid.

30. **ORDER OF PRECEDENCE:** In cases of conflict between specific provisions in this bid, the order of precedence shall be (1) special terms and conditions specific to this bid, (2) specifications, (3) City of High Point General Contract Terms and Conditions, and (4) City of High Point Bid Terms and Conditions.

31. **CLARIFICATIONS/INTERPRETATIONS:** Any and all questions regarding this document must be addressed to the City of High Point on the cover sheet of this document. Do not contact the user directly. Any and all revisions to this document shall be made only by written addendum from the City of High Point Purchasing Department. The bidder is cautioned that the requirements of this bid can be altered only by written addendum and that verbal communications from whatever source is of no effect.

32. **SITUS:** The place of all contracts, transactions, agreements, their situs and forum, shall be North Carolina, where all matters, whether sounding in contract or tort, relating to the validity, construction, interpretation, and enforcement shall be determined.

SPEC SHEET FOR ITEM #2 - SUBSTATION OFFICE AT MOC AND ITEMS 3 & 4 AT FLEET MAINTENANCE FACILITY

INDOOR PHOTOMETRIC REPORT

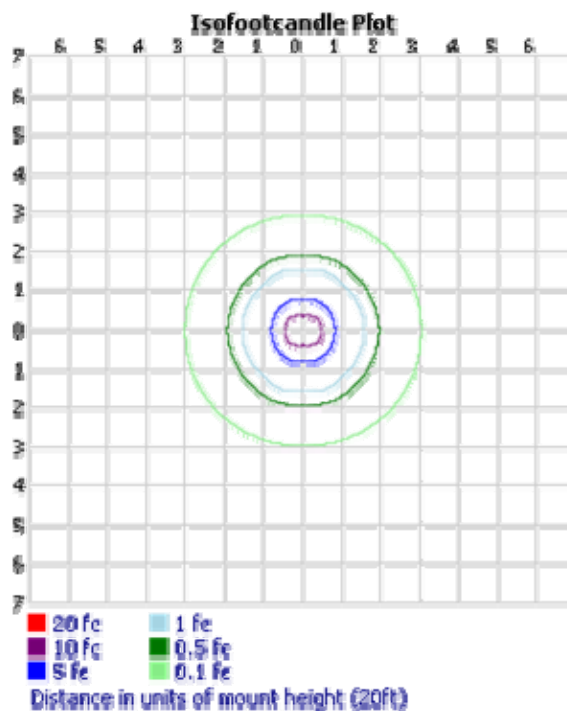
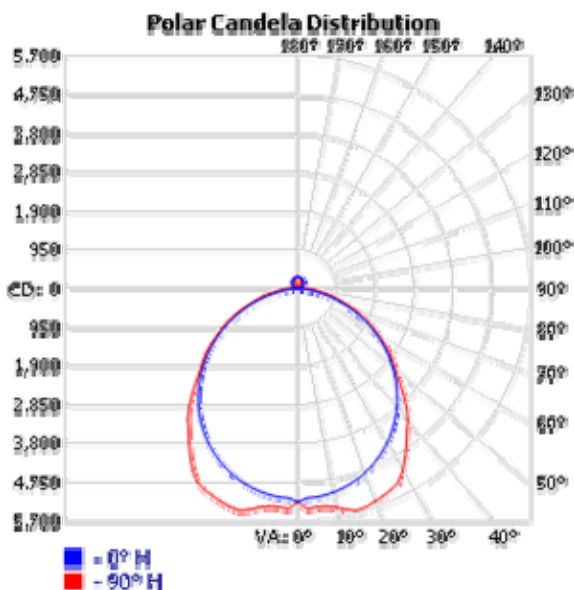
CATALOG: HB24 6 32 N1X20

TEST #: ALP200443
 TEST LAB: ACUITY BRANDS LIGHTING CONYERS LAB
 ISSUE DATE: 4/4/2011
 CATALOG #: HB24 6 32 N1X20
 LUMINAIRE: 2X4 HIGH BAY FOR (6) 32W T8 LAMPS, NORMAL BEAM REFLECTOR
 LAMP CAT #: FO32T8/841/ECO
 LAMP: SIX 32 WATT SYLVANIA LAMPS
 LAMP OUTPUT: 6 LAMPS, RATED LUMENS/LAMP: 17700
 BALLASTCAT: QT3X32T8/120ISN-SC
 BALLAST: TWO QT3X32T8/120ISN-SC SYLVANIA BALLAST OPERATING AT 120V AND 174.7W
 INPUT WATTAGE: 174.7
 LUMINOUS OPENING: RECTANGLE (L: 48", W: 23.52")





TER VALUE: 46 (BF = 1)
 TER CATEGORY: HIGHBAY, LINEAR
 CIE CLASS: DIRECT
 MAX CD: 5,627.7 AT HORIZONTAL: 90°, VERTICAL: 15°
 SPACING CRITERION: @ 0 = 1.25
 @ 90 = 1.38
 EFFICIENCY: 93.7%



VISUAL PHOTOMETRIC TOOL 1.2.39 COPYRIGHT 2012, ACUITY BRANDS LIGHTING
 REPORTED DATA CALCULATED FROM MANUFACTURER'S DATA FILE, BASED ON IESNA RECOMMENDED METHODS.



ALP200443
 VISUAL PHOTOMETRIC TOOL

PAGE 1 OF 3

INDOOR PHOTOMETRIC REPORT

CATALOG: HB24 6 32 N1X20

**ZONAL LUMEN SUMMARY**

ZONE	LUMENS	% LAMP	% LUMINAIRE
0-30	4,427.8	25%	26.7%
0-40	7,351.3	41.5%	44.3%
0-60	12,795.1	72.3%	77.2%
60-90	3,257.1	18.4%	19.6%
70-100	1,469.3	8.3%	8.9%
90-120	133.7	0.8%	0.8%
0-90	16,052.2	90.7%	96.8%
90-180	527.4	3%	3.2%
0-180	16,579.6	93.7%	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	500.9	3.0%	90-100	51.7	0.3%
10-20	1,515.3	9.1%	100-110	38.4	0.2%
20-30	2,411.5	14.5%	110-120	43.6	0.3%
30-40	2,923.6	17.6%	120-130	50.4	0.3%
40-50	2,930.1	17.7%	130-140	63.8	0.4%
50-60	2,513.6	15.2%	140-150	83.2	0.5%
60-70	1,839.5	11.1%	150-160	94.5	0.6%
70-80	1,052.6	6.3%	160-170	74.5	0.4%
80-90	365.0	2.2%	170-180	27.3	0.2%

AVERAGE LUMINANCE (CD/M2)

	0	22.5	45	67.5	90
0	7184	7184	7184	7184	7184
45	6662	8004	7463	7247	7088
55	6314	7466	6543	6524	6583
65	5744	6160	6006	6010	6157
75	4704	5053	5348	5468	5495
85	2420	3634	5058	5980	6594

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	0			
RCR: 0	1.11	1.11	1.11	1.11	1.08	1.08	1.08	.91	1.02	1.02	1.02	.97	.97	.97	.93	.93	.93	.91			
1	1.01	.97	.93	.89	.98	.94	.91	.77	.90	.87	.84	.86	.83	.81	.82	.80	.78	.76			
2	.92	.84	.78	.73	.89	.82	.77	.65	.79	.74	.69	.75	.71	.67	.72	.68	.66	.63			
3	.84	.74	.67	.61	.81	.72	.65	.55	.69	.63	.58	.66	.61	.57	.64	.59	.56	.53			
4	.77	.66	.58	.51	.75	.64	.57	.47	.62	.55	.50	.59	.53	.49	.57	.52	.48	.46			
5	.71	.59	.50	.44	.69	.57	.50	.41	.55	.48	.43	.53	.47	.42	.51	.46	.42	.40			
6	.65	.53	.45	.39	.63	.52	.44	.36	.50	.43	.38	.48	.42	.37	.46	.41	.37	.35			
7	.61	.48	.40	.34	.59	.47	.39	.32	.45	.38	.33	.44	.37	.33	.42	.37	.32	.31			
8	.56	.44	.36	.30	.55	.43	.35	.29	.41	.35	.30	.40	.34	.29	.39	.33	.29	.27			
9	.53	.40	.32	.27	.51	.39	.32	.26	.38	.31	.27	.37	.31	.26	.36	.30	.26	.24			
10	.49	.37	.30	.25	.48	.36	.29	.24	.35	.29	.24	.34	.28	.24	.33	.28	.24	.22			

ALP200443
VISUAL PHOTOMETRIC TOOL

PAGE 2 OF 3

INDOOR PHOTOMETRIC REPORT

CATALOG: HB24 6 32 N1X20

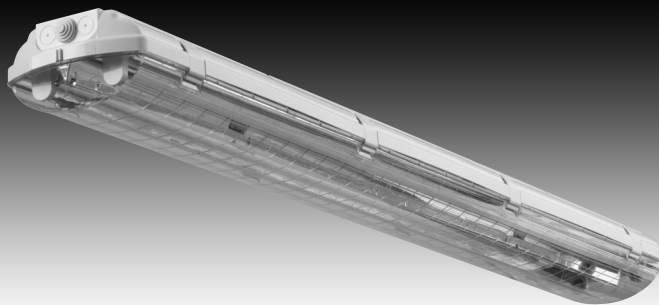
**CANDELA TABLE - TYPE C**

	0	22.5	45	67.5	90
0	5232	5232	5232	5232	5232
5	5134	5146	5210	5304	5374
10	5071	5166	5320	5394	5445
15	4963	5170	5406	5590	5628
20	4811	5131	5439	5600	5552
25	4616	5008	5433	5494	5434
30	4378	4833	5280	5266	5146
35	4099	4650	4957	4740	4643
40	3784	4434	4464	4201	4196
45	3431	4122	3844	3733	3650
50	3047	3672	3258	3135	3128
55	2638	3119	2734	2726	2750
60	2210	2502	2283	2254	2287
65	1768	1896	1849	1850	1895
70	1322	1370	1413	1449	1449
75	887	953	1008	1031	1036
80	478	572	628	703	717
85	154	231	321	380	419
90	22	64	126	192	236
95	32	23	20	18	36
100	60	29	26	23	22
105	89	34	28	28	28
110	111	32	30	30	30
115	129	33	31	31	31
120	150	41	29	31	32
125	169	68	27	28	28
130	188	113	28	27	26
135	206	154	33	25	26
140	221	196	58	25	23
145	236	232	105	53	43
150	248	253	160	101	99
155	260	268	222	139	128
160	270	276	257	208	177
165	278	281	282	251	232
170	284	284	288	282	266
175	287	287	289	289	286
180	290	290	290	290	290

ALP200443
VISUAL PHOTOMETRIC TOOL

PAGE 3 OF 3

Controlume



APPLICATIONS

The Controlume Series is ideal for harsh or wet environments where materials such as steel and aluminum may deteriorate. Applications requiring emergency power, impact resistance, battery backup, instant-on starting or hot-restrike such as storage areas, water treatment plants, industrial spaces, parking garages, waste-water treatment facilities or locker rooms will find this luminaire to be the fixture of choice.

FEATURES

Self extinguishing, lightweight and durable polycarbonate housing construction with a poured silicon gasket that is "hot-bonded" to the housing during manufacturing provides excellent moisture and dust penetration resistance.

Innovative C.L.E. (complete light emission) UV stabilized clear diffuser made of 100% polycarbonate material with clean architectural styling incorporates excellent impact resistance.

Dual concave parabolic reflector with a vacuum metalized finish.

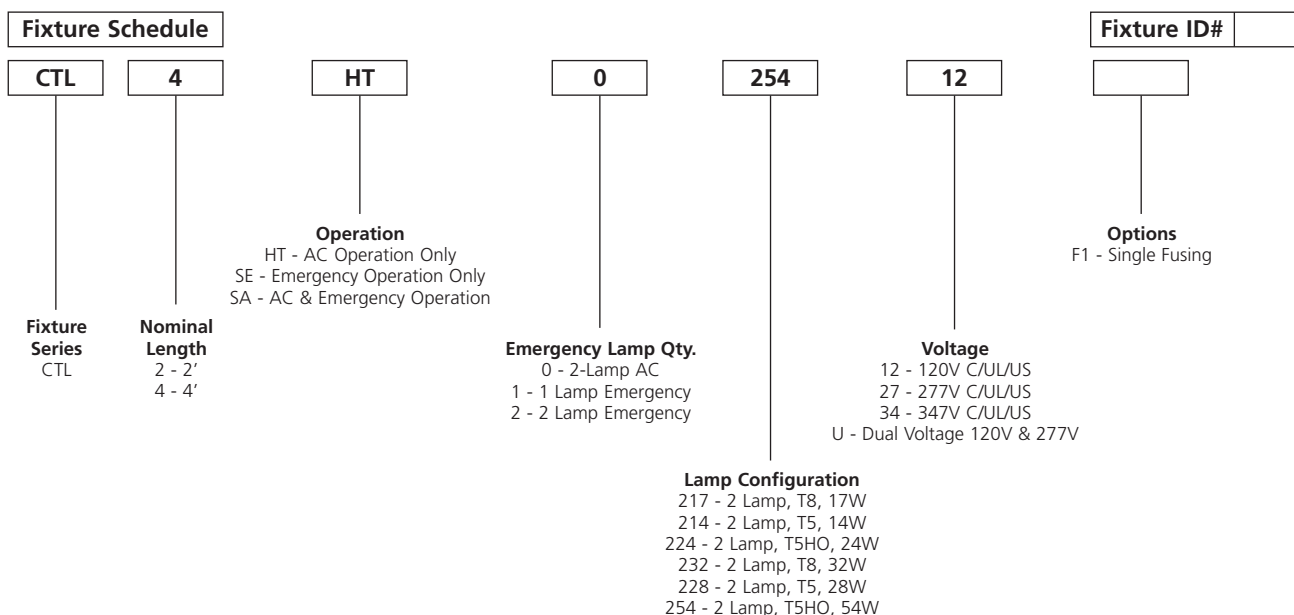
Available in 2' and 4' nominal lengths in T8, T5 or T5HO lamp sources.

Flush fitting, integral and captive non-corrosive fiberglass reinforced clips are not prone to rust.

The Controlume Series is configurable with multiple modes of operation: AC only mode, Emergency only mode or AC and Emergency mode.

UL listed in the U.S. and Canada for wet locations in environments up to 60°C. IP66 rated.

MODELS AVAILABLE



Not all photometric configurations are available with every lamp configuration
 Not all ballast types and quantities are available with every lamp configuration
 Contact your sales representative for more information.

SPECIFICATIONS

Housing: Self extinguishing, lightweight and durable polycarbonate construction with a poured silicon gasket that is "hot-bonded" to the housing during manufacturing. Anti-aging, expanded polyurethane gasketing and fiberglass reinforced closure clips. 1/2" conduit knockouts are provided on each end.

Optics: Computer designed, dual concave high efficiency reflector with a vacuum metalized finish.

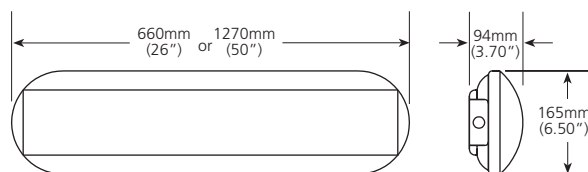
Lamps: (2) T8, (2) T5 or (2) T5HO lamps are secured with rotary locking lampholders.

Electrical: UL/CUL labeled for wet location. IP66 rated. Fixture is suitable for ambient temperatures up to 60°C. Fully wired with universal voltage, 60Hz AC, thermally protected, Class P, high power factor, non-PCB, Sound rated A, programmed start, electronic T5 or T5HO ballast or electronic universal voltage T8 ballasts. Emergency ballasts and protective fusing are optional.

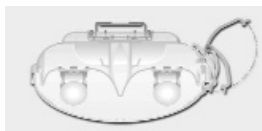
Mounting: The Controlume Series is designed to be ceiling mounted, wall mounted, rail mounted, pendant or chain mounted. Suitable for wet locations.

Finish: The Controlume Series is available with off-white polycarbonate housing and clear polycarbonate lens.

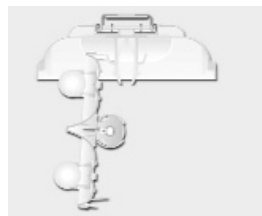
CROSS SECTIONS



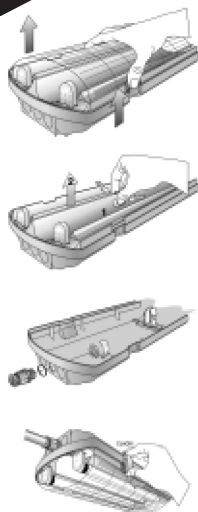
FIXTURE DETAIL



Fiberglass reinforced clasps fit flush to the housing.

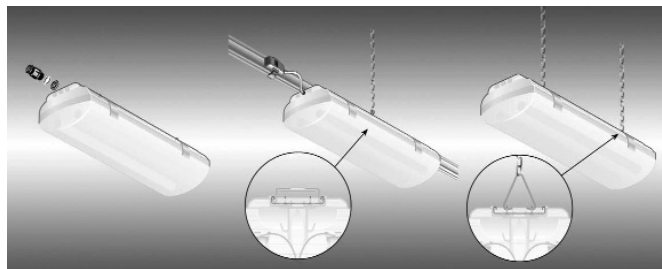


Service bracket allows trouble-free installation/service.



The Controlume is easy to install and maintain. The three-piece design (lens, reflector, housing) fit together to form a weather-proof seal and durable luminaire. The no tool design allows for the industry's easiest installation. (See drawing at left.)

Simply remove the high-output lens by opening the flush polycarbonate clips (2ft = 4 clips / 4ft = 8 clips). Remove the high-efficiency reflector from the housing by pinching the two (2) pressure clips together and lifting the reflector away from the housing. (Note: the reflector can be hung from the housing using the incorporated service bracket.) Wiring of the electronic ballast can now be accomplished. 1/2" conduit knockouts are provided on each end of the housing. Other housing entry points can be used for mounting variations. Finally, snap the reflector back in place, secure the high-output lens and lock down the closure clips.

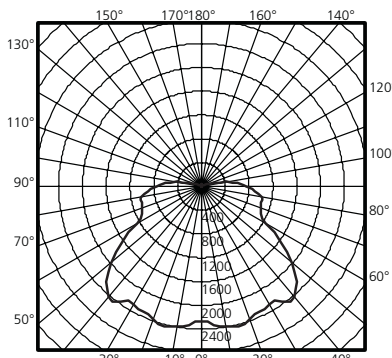


Surface Mount

Rail Mount

Chain Mount

PHOTOMETRY

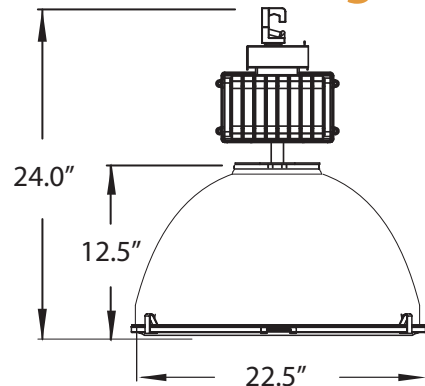


CTL4HT0254
SC Across: 1.6, SC Along: 1.3

INDUCTION - 22" HIGH-BAY ALUMINUM Light Fixtures

100,000 Hrs Life

The Next Generation of Lighting



Specification:

- Ballast Type	Electronic
- Start Method	InstantON
- Hot Re-start	InstantON
- Universal Input Line Voltage	100-300 VAC
- Input Line Frequency	50/60 Hz
- Lamp/Ballast System Life	100,000 Hrs.
- Lumen Maintenance @75,000Hrs	>70%
- Color Temperature	5000°K
- Color Rendering Index (CRI)	83
- Minimum Starting Temperature	-30°F
- Maximum Operating Temperature	160°F
- Lamp Operating Frequency	250 kHz
- Power Factor	> 0.98
- Total Harmonic Distortion	< 10%
- Inrush Current Peak	< 10 Amp
- Sound Rating	Class A
- ETL Listed / UL Standard 1598	Yes
- FCC Compliance	Part 18, Subp. C

Applications, Features, and Benefits

- 22" Aluminum housing with electrocoat black finish
- Heat resistant tempered glass lens
- White cast aluminum gear box with 3" mounting hook
- Ballast made with long life components
- InstantON(TM) flicker-free Cold Start and Hot Re-Start
- Correlated Color Temperature of 5000°K for greater visibility
- High Power Factor, Low THD Replaceable Ballast
- Advanced phosphors for high Lumen Maintenance and high lumen output
- Aluminum anodized reflector for superior long term performance
- Up to 20 years Maintenance free operation
- Light Sensor Detector (LD) - optional
- Motion Sensor Detector (MD) - optional
- 10 year product warranty

Product Information

Item No.	Description	Watts	Initial Lumens	Line Voltage Supply	Line Current	Total Harmonic Distortion (THD)	Power Factor	Packaging Dimensions		
								Width	Length	Height
19120-AL	22" High-Bay - Aluminum	120	9,600	120-277 VAC	1.05-0.45 Amp	<10%	0.98	24 in. 610 mm	24 in. 610 mm	30 in. 762 mm
19150-AL	22" High-Bay - Aluminum	150	12,000	120-277 VAC	1.31-0.56 Amp	<10%	0.98	24 in. 610 mm	24 in. 610 mm	30 in. 762 mm
19200-AL	22" High-Bay - Aluminum	200	16,000	120-277 VAC	1.75-0.75 Amp	<10%	0.98	24 in. 610 mm	24 in. 610 mm	30 in. 762 mm
19250-AL	22" High-Bay - Aluminum	250	20,000	120-277 VAC	2.18-0.94 Amp	<10%	0.98	24 in. 610 mm	24 in. 610 mm	30 in. 762 mm
19300-AL	22" High-Bay - Aluminum	300	24,000	120-277 VAC	2.62-1.13 Amp	<10%	0.98	24 in. 610 mm	24 in. 610 mm	30 in. 762 mm

Ordering Information

(SAMPLE NUMBER : 19120-AL-UNV-MD-C3-GL-BLK)

Fixture Weight = 20 - 25 lbs.

Series 19 = High-Bay	Wattage 120 = 120W 150 = 150W 200 = 200W 250 = 250W 300 = 300W	Reflector Type AL = Aluminum	Voltage UNV = Universal 480 = 480V	Accessories LD = Light Sensor MD = Motion Sensor	Options *C3 = 3' Cord-No Plug (Other Lengths available by specifying cord length C6 = 6' cord) PC3 = 3' Cord with NEMA Plug (verify plug type when ordering) **GL = Glass Lens PL = Polycarbonate Lens WG = Wire Guard * Product comes standard with 3' Cord-No Plug ** Product comes standard with Glass Lens	Color BAL = Bare Aluminum BLK = Black * * Standard ** custom colors available
---------------------------------------	---	---	---	---	---	--

NEPTUN Light, Inc.
 Questions and Comments:
service@neptunlight.com
 Toll-Free: 1-888-735-8330

© Copyright 2009
 NEPTUN Light, Inc.

NEPTUN
 LIGHTING
 22

Spec. Rev. 1-2012

